Performance Data Sheet

HGA5479BXC

General Information

Model	HGA5479BXC	**Refrigerant**	R-410A
Test Condition	ASHRAE	**Performance Test Voltage**	220V ~ 50HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	2330	2210					
	Watts	355	385					
	Amps	1.73	1.85					
	Lb/h	25.8	25.6					
-10	Btu/h	2610	2490	2320				
	Watts	364	397	422				
	Amps	1.75	1.90	2.00				
	Lb/h	29.2	29.3	28.8				
-5	Btu/h	2930	2800	2630	2400			
	Watts	370	408	436	460			
	Amps	1.77	1.94	2.06	2.16			
	Lb/h	33.0	33.1	32.8	31.7			
0	Btu/h	3290	3140	2960	2730	2420		
	Watts	375	417	449	477	506		
	Amps	1.79	1.98	2.12	2.24	2.35		
	Lb/h	37.2	37.4	37.1	36.1	34.1		
5	Btu/h	3690	3520	3320	3070	2750		
	Watts	379	424	459	491	524		
	Amps	1.80	2.00	2.17	2.31	2.44		
	Lb/h	41.9	42.0	41.8	40.9	38.9		
10	Btu/h	4130	3940	3710	3440	3100	2680	2150
	Watts	380	429	468	504	540	582	636
	Amps	1.80	2.02	2.20	2.36	2.52	2.70	2.92
	Lb/h	47.1	47.1	46.9	46.0	44.1	41.0	36.2
15	Btu/h	4630	4390	4140	3840	3480	3030	2480
	Watts	379	432	475	514	554	600	657
	Amps	1.79	2.03	2.23	2.41	2.59	2.80	3.04
	Lb/h	52.9	52.9	52.5	51.6	49.8	46.7	42.0
20	Btu/h	5170	4900	4600	4270	3870	3400	2830
	Watts	376	433	480	522	566	615	676
	Amps	1.78	2.03	2.25	2.45	2.65	2.88	3.15
	Lb/h	59.5	59.3	58.8	57.8	55.9	52.9	48.2

25	Btu/h	5770	5450	5110	4730	4300	3790	3180
	Watts	371	431	482	528	576	629	693
	Amps	1.76	2.03	2.26	2.48	2.70	2.95	3.24
	Lb/h	66.9	66.4	65.8	64.6	62.7	59.6	55.0
30	Btu/h	6440	6060	5660	5240	4760	4210	3560
	Watts	364	428	482	532	583	640	708
	Amps	1.73	2.01	2.26	2.50	2.74	3.00	3.32
	Lb/h	75.2	74.4	73.5	72.2	70.1	66.9	62.2
35	Btu/h	7160	6720	6270	5780	5250	4650	3960
	Watts	355	422	480	534	588	649	720
	Amps	1.69	1.99	2.25	2.51	2.76	3.05	3.38
	Lb/h	84.4	83.3	82.1	80.5	78.2	74.9	70.2
40	Btu/h	7950	7440	6920	6370	5780	5120	4380
	Watts	343	414	476	533	591	655	730
	Amps	1.64	1.96	2.24	2.50	2.78	3.08	3.43
	Lb/h	94.7	93.2	91.6	89.8	87.2	83.7	78.8
45	Btu/h	8810	8220	7630	7010	6350	5630	4830
	Watts	328	403	469	530	591	659	737
	Amps	1.59	1.91	2.21	2.49	2.78	3.10	3.47
	Lb/h	106	104	102	100	97.2	93.4	88.3
50	Btu/h	9750	9070	8400	7700	6970	6180	5310
	Watts	311	390	459	524	589	660	742
	Amps	1.53	1.86	2.16	2.46	2.76	3.10	3.49
	Lb/h	119	116	114	111	108	104	98.6
55	Btu/h	10800	9990	9230	8450	7630	6760	5820
	Watts	292	374	447	515	584	658	744
	Amps	1.45	1.80	2.11	2.42	2.74	3.09	3.50
	Lb/h	133	130	127	124	120	116	110

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	5.518497E+03	-8.964711E+02	-3.809752E+00	6.253397E+01
C2	1.287129E+02	-5.496855E+00	-1.806811E-02	1.232183E+00
C3	-6.295470E+01	3.248319E+01	1.401436E-01	-1.015663E+00
C4	1.969105E+00	-3.495229E-02	2.297367E-05	1.810559E-02
C5	-9.414308E-01	8.191354E-02	1.327893E-04	-8.384554E-03
C6	6.966591E-01	-2.752738E-01	-1.151353E-03	1.324861E-02
C7	4.506117E-03	-1.112905E-04	-3.887261E-07	1.095358E-04
C8	-1.398739E-02	-1.794906E-05	-1.878427E-06	-1.073495E-04
C9	3.438025E-03	-3.711277E-05	1.493091E-06	4.997178E-05
C10	-3.228501E-03	8.495883E-04	3.427461E-06	-5.635643E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature